# DT CURRICULUM YEAR PLAN

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| **DT skills** | **Design** | **Make** | **Evaluate** | **Technical Knowledge** |
| | **Working with Tools** | | **Cooking and Nutrition** | |
| **Areas** | **Textiles** | **Electrical Systems** | **Mechanisms** | **Structures** |

| | **Autumn Term** | **Spring Term** | **Summer Term** |
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| **R** | Junk Model Vehicles<br><br>Clay Divas | Cardboard rockets<br><br>Easter shredded wheat nests | Fairy cakes<br><br>Cress sandwiches |
| **Y1** | **Food: Fruit Kebabs and yoghurt dip**<br>• To know where different types of fruit come from, and understand that they are part of a plant.<br>• To name and sort foods into the 5 food groups.<br>• To explore a range of fruits and describe their taste and texture. To explore ingredients to make a yoghurt dip.<br>• To design and make fruit kebabs with yogurt dip.<br>• To evaluate product and suggest ways it could be improved.<br>• To consider the types of packaging the fruit kebabs could be sold in. | **Structures: Design and make a jungle box for toy animals**<br>• To evaluate an existing toy jungle set<br>• To use card and paper to explore how to build simple structures<br>• To design a jungle play box for a set of toy animals<br>• To make a jungle toy box using card and paper<br>• To evaluate product against the original design. | **Mechanisms: Design and make a moving picture**<br>• To identify simple levers and sliders in moving books and explain how they work.<br>• To make practice models of moving parts out of card<br>• To design a picture that includes at least 2 moving parts<br>• To make and construct the moving picture<br>• To evaluate the strengths and weaknesses of the finished product |

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| **Y2** | **Food: Healthy Wraps**<br>• To sort a range of foods into the 5 food groups and describe a healthy and balanced diet<br>• To know where meat and vegetable foods come from and understand that they are part of animals or plants<br>• To explore a range of foods suitable for making a wrap and describe their taste and texture<br>• To design and make a healthy wrap<br>• To evaluate product and think about any improvements that could be made. | **Textiles: Design and make a puppet**<br>• To explore a range of textile puppets<br>• To practice simple sewing techniques<br>• To design a fabric puppet<br>• To make the puppet<br>• To evaluate finished product against original design. | **Mechanisms: design and make a model windmill with moving sales**<br>• To explore the structure of windmills<br>• To explore using card and paper to make models of strong bases<br>• To explore how to make a moving sale<br>• To design a model windmill<br>• To construct the model windmill<br>• To evaluate finished product and suggest improvements |
| **Y3** | **Mechanisms: Design and make a pop-up Christmas card**<br>• To explore a range of pop-up mechanisms and explain how they work<br>• To make practice pop-up mechanisms using card and paper<br>• To design a pop-up Christmas card<br>• To make the pop-up Christmas card<br>• To evaluate the finished product against the original design. | **Food: pizzas**<br>• To research how pizzas are made and investigate the taste of various toppings<br>• To use labelled diagrams and assembly instructions to plan a pizza that includes 4 toppings.<br>• To work hygienically to make a pizza in groups<br>• To evaluate likes and dislikes about pizza and refine recipe<br>• To consider how recipe can be adapted to create a healthier pizza. | **Textiles: Design and make a pencil case**<br>• To investigate how pencil cases are made<br>• To practice different sewing stitches<br>• To investigate different fastenings (poppers, buttons)<br>• To design a pencil case that includes embellishments<br>• To make the fabric pencil case<br>• To evaluate final product against the original design |
| **Y4** | **Electrical Systems: Design and make a festive lantern**<br>• To investigate how a light-up item works by taking it apart<br>• To investigate how to make simple 3D nets<br>• To investigate electrical circuits that include a switch (can be done in science lesson)<br>• To use annotated sketches to design lantern, explaining how it will work<br>• To assemble and join materials with accuracy to make the lantern | **Food: Pasta**<br>• To know how pasta is made and where the ingredients come from<br>• To research pasta recipes and know that pasta is a popular dish in Italy<br>• To design a seasonal pasta salad that could be sold at an event<br>• To work in groups to prepare and make a pasta salad<br>• To create a design idea for a container that could hold the pasta<br>• To consider ways in which the recipe could be adapted. | **Structures: Design and make a Roman style sandal to fit a foot**<br>• To research how Roman sandals were made<br>• To test how to assemble, join and combine materials to achieve a particular purpose and function<br>• To explore ideas and complete a final design for a Roman sandal, using annotated sketches<br>• To select and assemble materials to make a Roman sandal<br>• To evaluate the sandal against the original design and think of how it could be improved. |

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| **Y5** | **Mechanisms: Design and make a pop-up book to tell the Christmas story**<br>• To identify a range of pop-up mechanisms in pop-up books and explain how they work<br>• To test the main types of pop-up mechanisms<br>• To design a pop-up page for each of the 6 given parts of the story.<br>• To construct paper materials with precision and accuracy to make pop-up book.<br>• To evaluate finished product against the original design and consider improvements that could be made. | **Structures: Design and make a Viking Longship that can float on water**<br>• To research other model longships<br>• To investigate if card and paper can be manipulated to float on water.<br>• To generate own design ideas to make a model longship that is historically accurate.<br>• To assemble, join and combine materials with accuracy to make a model longship.<br>• To evaluate the design and construction of the model longship and consider improvements that could be made. | **Textiles: Design and make a cover for a hot water bottle**<br>• To research and evaluate existing hot water bottle covers.<br>• To test how to join materials with a range of different stitches.<br>• To use annotated sketches to create design ideas for a hot water bottle cover that includes embellishments.<br>• To use accurate cutting and sewing techniques to make a fabric hot water bottle cover.<br>• To evaluate the design and construction of the hot water bottle and consider improvements that could be made. |
| **Y6** | **Electrical Systems: Design and make an electric 'wobblebot'**<br>• To investigate electrical circuits that include a motor (can be done in science lesson)<br>• To explore how the motor can create movement of an object<br>• To generate a range of design ideas for a toy 'wobblebot'<br>• To assemble and join materials with accuracy to make a 'wobblebot'<br>• To evaluate the quality of design and fitness for purpose of the final product. | **Mechanisms: Design and make a sling-shot car**<br>• To investigate sling-shot toys and games and explain how the force is creating movement.<br>• To observe how a sling-shot car is made and describe how it works using annotated sketches.<br>• To generate a range of design ideas for a their own sling-shot car.<br>• To assemble and join materials with accuracy to make a sling-shot car.<br>• To evaluate the quality of design and fitness for purpose of the final product. | **Year 6 Drama Production**<br>Children will design and make props related to the play. |